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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/691,360	10/22/2003	Kalidas Shetty	4999-102 US	4951
7590 09/26/2005			EXAMINER	
Patrick Higgins			CLARDY, S	
Mathews, Collins, Shepherd & McKay, P.A.			ART UNIT	PAPER NUMBER
Suite 306 100 Thanet Circle			1617	
Princeton, NJ 08540			DATE MAILED: 09/26/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/691,360	SHETTY, KALIDAS				
		Examiner	Art Unit				
		S. Mark Clardy	1617				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHOWHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING Dominions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 26 A	pril 2004.					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠	6) Claim(s) <u>1-20</u> is/are rejected.						
·	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	on Papers						
9) ☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
<ul><li>2. Certified copies of the priority documents have been received in Application No</li><li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li></ul>							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment	· (s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 4/26/2004.  5) Notice of Informal Patent Application (PTO-152)  6) Other:							

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Claims 1-20 are pending in this application.

Applicant's claims are drawn to compositions (product-by-process claims 14-17), methods of using them (18-20) and methods of making them (1-13). The method of making the claims comprises fermenting fish (claim 5: capelin herring, menhaden) to obtain a soluble fish protein hydrolysate product, mixing it with homogenized seaweed, again fermenting, then taking the top layer as the useful plant growth enhancing layer. An organic acid (lactic, citric, acetic, malic, formic) may also be added to the composition (claims 2-3).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Rutherford (US 4,383,845), Shetty (US 5,906,941), Hedgpeth, IV (US 5,876,479), and Tatterson et al<sup>1</sup>.

Rutherford teaches a foliar growth promoting mixture for application to plants comprising a liquid seaweed component in combination with a fish emulsion mixture, and a liquid humus mixture (col 2, lines 25-41)

Shetty teaches that the soluble fish protein hydrolysate (SFPH) as used herein was known as a nutrient source for plant tissue culture.

<sup>&</sup>lt;sup>1</sup> Tatterson et al. "Fish Silage", J. Sci. Fd. Agric., 25:369-379. 1974.

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Hedgpeth, IV, teaches a plant fertilizer composition or soil enhancer comprising a source of crude protein such as fish protein, humic acid, citric acid, and seaweed. The mixture is aged to break down proteins and allow for microbial growth (abstract).

Tatterson et al teach the process for making fish silage, which includes an acid addition step, i.e., the addition of formic acid (p. 370-371).

One of ordinary skill in the art would be motivated to combine these references in order to make use of fish byproducts in making plant fertilizer compositions.

Thus it would have been *prima facie* obvious to the ordinary artisan at the time the invention was made to have combined applicant's fish, seaweed, and acid components in a fermentation process in order to obtain a fertilizer product because the prior art teaches that these components were known to have utility as fertilizer materials after fermentation.

No unobvious or unexpected results are noted; no claim is allowed.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Mark Clardy whose telephone number is 571-272-0611. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Mark Clardy Primary Examiner

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September 21, 2005